

## CALL FOR PAPERS – MOBISLICE II – Mobility Support in Slice-based network control for heterogeneous environments

### Description

**Network slicing** has been standing as one of the key enabling technologies for the upcoming 5<sup>th</sup> Generation of Telecommunications. Alongside other important technologies, such as **NFV**, **SDN** and **MEC**, its contributions to isolated network provisioning in a more dynamic and flexible way are being pursued in different industry and academia arenas throughout the world. Nonetheless, considering the wide range of foreseen enhanced use cases (not only in scope of 5G but also **Beyond-5G**), slicing aspects have been mostly targeting either enhancements at the radio level, or the integration of cloud resourcing capabilities for supporting network operation at the core and/or the edge. As such, there is a wide gap related with the impact that such slicing-based procedures will exert over **mobility management** processes for **seamless mobility support** while the devices, network or services move both physically (i.e., change their network point of attachment) as well as virtually (i.e., between slices). It is evident that a vast majority of access to on-line services is done while on the move, and considers not only **human-to-machine** communications (such as ultra-HD video conferencing and other services) but also **machine-to-machine** communications (such as vehicles and drones/UAV's for Internet of Things scenarios). The objective of the MOBISLICE II workshop is to foster the ideas of slice-based designs and technologies in mobile scenarios and assess their impact, proposing solutions and enhancements to their efficient, dynamic and elastic support.

### Topics

The **MOBISLICE II** workshop focuses, but is not limited to, the following topics targeting slicing:

- Vertical use cases and architectures for MOBISLICE
  - Slices in constrained environments (IoT, Edge, etc.)
  - Automotive service and ITS scenarios
  - Telco Operator and enterprise-based environments
  - Smart-X slice mobility
- Management and orchestration for MOBISLICE
  - Common operations and API
  - Inter- and intra-slice mobility
  - Lifecycle management
  - Heterogeneous access convergence
  - High availability and reliability techniques
- Standardization trends and activities for MOBISLICE
  - Status and progresses in 3GPP/ETSI/IETF/5GAA and other SDOs
  - Proposals and standardization direction for advanced slicing
  - SDN/NFV initiatives
  - Slice-enhanced Networking and telecommunication protocols
- Beyond-5G slicing
  - Disruptive architectures
  - Zero-touch slice performance

### Technical Program Committee

Alex Galis	UCL
Antonio de la Oliva	UC3M
Carlos Bernardos	UC3M
Rui Aguiar	UA/IT
Diego Lopez	Telefonica
Dirk Trossen	InterDigital
Francisco Fontes	Altice Labs
Gino Carozzo	Nextworks
John Kaippallimalil	Huawei USA
Juhoon Kim	DT
Kashif Mahmood	Telenor
Marco Liebsch	NEC
Ramon Casellas	CTTC
Riccardo Trivisonno	Huawei
Sri Gundavelli	Cisco Systems
Sung H. Won	Nokia Bell Labs
Tarik Taleb	Aalto Univ.
Yong-Hyuck Evan Kim	Qualcomm
Younghan Kim	Soongsil Univ
Pankaj Thorat	(Samsung)

### Submissions

MOBISLICE II will accept papers formatted as the standard IEEE double-column conference template, with a 6 page limit, allowing 1 additional page with an additional charge. The best paper voted by the TPC will receive A BEST PAPER award. *Selected papers will be featured in a Special Issue of the "Internet Technology Letters" (John Wiley & Sons)*  
Check for more submission information at the workshop's website: <http://mobislice.com>

### Important Dates

Paper submission: July 26, 2019  
Notification of Acceptance: August 30, 2019  
Camera-ready Submission: September 20, 2019

### Workshop Chairs

Daniel Corujo (University of Aveiro and Instituto de Telecomunicações, Portugal)  
Augusto Neto (Federal University of Rio Grande do Norte, Brazil)  
Seil Jeon (Huawei Technologies, Sweden)

### TPC Chairs:

Prof. Dr. Rui L. Aguiar, Universidade de Aveiro e Instituto de Telecomunicações, Portugal  
Prof. Dr. Christian Rothenberg, (Universidade de Campinas, Brazil)